





65	120	180 179 180	240 239 240	300 295 300	360 355 360
MONITEEVA ATETLAEVPE HVLRGLPEEV RLFPSAVOKT RIGVWATKPI LKGKKFGPFV	GDKKKRSQVK MNVYMWEVYY PNLGWMCIDA TDPEKGNWLR YVNWACSGEE QNLFPLEINR	AIYYKTLKPI APGEELLVWY NGEDNPEIAA AIEEERASAR SKRSSPKSRK CKKKSENKN	KGNKIODIQL KUSEFIDFTISA NMRESAEGPK EDEENPSASA LEOPAJILLEV ASOEVFPELA	TPAPAMEROP EFDERLIGNAA CEVNDLGEEE HEEEEEFEEE EEDDDDBILE DEGFEEAAMP	NESSAKEPEI RCHEKPEDLL EEPKTISHEL LEDCSEVTPA MOIPRINEEA NGOVHETFMF
M-ON-TEEVA ATETLAEVPE HVLRGLPEEV RLFPSAVOKT RIGVWATKPI LKGKKFGPFV	GDKKKRSQVR MNVYMWEVYY PNLCWMCIDA TDPEKGNWLR YVNWACSGEE QNLFPLEINR	AIYYKTLKPI APGEELLVWY NGEDNPEIAA AIEEERASAR SKRSSPKSRR CKKKS-ENKN	KGIRTHPTOL KASELDETTRA,NMRUSAEGPK EEUEHPIASA FEOPAFILEEV GNODAVPQVA	IPLPACEROP EUCKGEVTD CEVNDVREEE   REEEEFEEE EEELI ECCHEEAAMP	NESSAKEPEI RCHEKPEDLL EEPJSMSNEA REDSPUNTPP PHIPPRINEEA NGOVLETFMF
M-ON-TEEVA ATETLAEVPE HVLRGLPEEV RLFPSAVOKT RIGVWATKPI LKGKKFGPFV	GDKKKRSQV MNVYMWEVYY PNLGWMCIDA TDPEKGNWLR YVNWACSGEE QNLFPLEINR	AIYYKTLKPI APGEELLVWY NGEDNPEIAA AIEEERASAR SKRSSPKSR GKKKSENKN	KGQL K.SE.D.TI.A NMR.SAEGPK E. E.P.ASA EOPALLEV GP. B.	PALEROP E ID   EVND   EEE   EEEEE EE EE EE	NESSIKEPEI RCHEKPEDLL EEP SIE ED VITB PR.EEA NGOVLETFMF
hRIZ	hR12	hR12	hR12	hRI2	hR12
rRIZ	rR12	rR12	rR12	rRI2	rR12
Consensus	Consensus	Consensus	Consensus	Consensus	Consensus



Inventors: Huang and Chadwick Serial No.: 10/024,450 Filing Date: December 17, 2001 Attorney Docket: P-LJ 5101 USPTO Customer No. 23601 (858-535-9001)

420	480	539	599	659	719
415	473	533	593		713
420	480	540	600		720
PCONCERKET TROCLERHMI IHISTAMIAF KCKYCGRAFG TOINRRRHER RHEPGLKRAFP PCONCERKFA TROCLERHMI IHISTIMHAF KCKYCGKAFG TOINRRRHER RHEIGLKRAFA PCONCERKE TYOCHCERKE TROCLERHMI IHISTIMIAF KCKYCGK FG TOINRRRHER RHEIGLKREP	STILGESED, ADCKASCENV ASKEDSSPPS LCADCLIMAS ENASCOTINS SAVEENGEVE SMILGESEDP EDGK-GENV 11SKEDSSPPQ LCADCLILIAS EKISGEVENS SPVEENGEVE STILGESED. 10GK. GENV 1SKELSSPP. LCEDCLI NS EKISGE. NS S. VEENGEVE	ELHPCKYCKK VFGTHTNMRR HORRVHERHL IPKGVRRKGG LIE POPPAE OADATONVYV ELHPCKYCKK VFGTHTNMRR HORRVHERHL IPKGVRRKGG LIE POPPAE OAPPSONVYV ELHPGKYCKK VFGTHTNMRR HORRVHERHL IPKGVRRKGG LIE POPPAE OAONVYV	PSTEPEEECE MODVYIMDIS SNISENLNYY IDCKIQTNNN TSNCDVIEME SNSACLYGIN PSTEPEEECE MODVYIMDIS SNISENLNYY IDCKIQTNSS TSNCDVIEME SNSA-LYGID PSTEPEEECE DDVYIMDIS SNISENLNYY IDCKIQTN TSNCDVIEME SLSA LYGI	CLLTPVTVEI TONIKHTOVP VTEDLEKEPL GSTNEEFKKR RTASPPALPK IKPETISDPM CLLTPVTVEI TONIKETOVS VTDDL KOSP SSTNEESKR RTASPPALPK IKMETESDST CLLTPVTVEI TONIKETOV VT.DL.KO. STN.E.KKR RTASPPELPK IKETED	VPSCSLSLPL SISTMENVSF HKEKENYLSS KLKQLLQTQD KLTEPAGUSA NEIPKLGPVC APSCSLSLPL SISTMENVSF HKEKENYLSS KLKQLLQTQD KLTUPAGFSA NEIFKLGPVC PSCSLSLPL SIST E NSF HKEK NYLSS KLKQLLQTQD KLTIPAG SA EI KLGPVG
hR12	hRIZ	hRIZ	hR12	hRIZ	hRIZ
rR12	rRIZ	rRIZ	rR12	rRIZ	rRIZ
Consensus	Consensus	Consensus	Consensus	Consensus	Consensus

Title: METHODS OF DETECTING AND TREATING MICROSATELLITE-INSTABILITY.... 191302

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Attorney Docket: P-LJ 5101
USPTO Customer No. 23601 (858-535-9001)

779 773 780	839	899	958	1018	1078
	833	889	949	1009	1067
	840	900	960	1020	1080
VSAPASMLPV TSSRFKRRTS SPPSSPOHSP ALRDFCKP-10 CKAAWTDAGL TSKKEKLESH ASAPASMLPV TSSRFKRRTS SPPSSPOHSP ALRDFCKPND CKAAWTDTVL TSKK-KLESR SAPASMLPV TSSRFKRRTS SPPSSPOHSP ALRDFCKP 10 CKAAWTD. L TSKK KLES	SDSPAWSLSC RDERETHSPP CFDEYKHSKE WHASSNESSV CNOOPLDLSS CVKOKBECTC SDSPAWSLSC RDERETTSPP CFDEYKHSKE WASSHFSSV CNOOPLDLSS GVKOKFECTC SDSPAWSLSC RDERET SPP CFDEYKHSKE WASSHFSSV CNOOPLDLSS GVKOKFECTC	KTPVDAESVL DLSVHKKIGS DSECKEFKES HEVOPTCSAV KKAKPTTCML OKVLLNEYNG KTPVFAESVL DLSVHKKFG- DSECKEFKEN ÞLAQPAA KKKKPTTCML QKVLLNEYNG KTPV WESVL DLSVHKKIG DSECKEFKE. M. OP A. KKIKPTTCML QKVLLNEYNG	IGLPGENPAD GTRSPSPCKS LENOPOPHIG PISSEPAPTN ESTREMICE PS SPALOTHSUS VSLPHETTPE VTRSPSPCKS, POTOPDFHIG PISSESVPTN ESTREMICES SPALOTHSUS LIPIE TRSPSPCKS OPDPLIG PIS PT. ES.B.W. PS SP.LOTISLS	SCOLPPLUIP TEPSSPPPCP PULTVATPPP PLLPTVPLPA PSSEASPHFC PSPLSNATAO SCOLPPLUIP TEPSSPPPCP PULTVATPPP PLLPTVPLSH PSSEASPAC PSPHSNITAO SCOLPPLU P T PSSPPPCP PULTVATPPP PLLPTVPL. PSSEASP C PSP SN TAO	SPLPILSPTV SPSPSPIPPV EPLMSAASPG PPTLSSSSSS SSSSSFSFS SESFSPPPPSPLPILSPTV SPSPSPIPPV EPLMSAASPG PPTLSSSSSS SSSFFSFS STSFSPFP-SPLPILSPTV SPSPSPIPPV EPLMSAASPG PPTLSSSSSS SSSFFSFS SISPEPPILSPTV SPSPSPIPPV EPLMSAASPG PPTLSSSSSS SSSF SSSF SFSF SFSP SPIPPV
hRIZ	hRI2	hRIZ	hRIZ	hRIZ	hRIZ
rRI2	rRI2	rRIZ	rRIZ	rRIZ	rRIZ
Consensus	Consensus	Consensus	Consensus	Consensus	Consensus

Title: METHODS OF DETECTING AND TREATING MICROSATELLITE-INSTABILITY.... 091302

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hRIZ rRIZ	LSAUSSVVSS CONLEASLPA 19FKQEE EN EGLKPPEEPQ SAARQDVVVQ ETFEKNFUCH LSAUSSVVSS CONLEASLPA VIFKQEE ES EGLKPPEEAP FAGGS-VVQ ETFEKNFUCH	1138
Consensus	LSA SSVVSS CONLEASUR FKOEE B. ECLKP EE W. G. WVO ETF KNF CN	1140
hR12 rR12	VCESPFLSIK DLTKHLSIHA EEWPFKCEFC VQLFKIKTDL SEHRFLLHGV GNIFVCSVCK VCESPFLSIK DLTKHLSHA EEWPFKCEFC VQLFKUKTDL SEHRFLLHGV GNIFVCSVCK	9811
Consensus	VCESPFLSIK DLTKHLS HA EEMPFKCEFC VOLFK KTDL SEHRFLLHGV GNIFVCSVCK	1200
hR12 rR12	KEFAFLCNLO QHQRDLHPDK VCTHHEFESG TLRPQNFTDP SKA-VEHAGS LPETPLETSK KEFAFLCNLQ QHQRDLHPDE VCTHHEFESG TLRPQNFTDP SKANVEHAFS LPEEPLETSR	1258
Consensus	KEFAFLCNLO OHORDLHPD. VCTHHEFESG TLRPONFTDP SKA VEHM S LPE PLETS	1260
h812	TEREST NOCE EL VETTIVIMA COLVETVIO DE CINOHON DE SONO	81.
rRIZ		1305
Consensus	EEE LNDSSE ELYTTIKIMA SCIKTKDPDV RLGLNQHYPS FKPPPFQYHH RNPMGIGVTA	1320
ъв 12	THETTHNIDO TETTAIRCTK CCKCVDNMPF I HKHII ACAS ASOKKRYTPK KNPVPI KOTV	178
rRIZ	TWFTTHNIPQ TFTTAIRCTK CGKGVDNMPE LHKHILACAS ASDKKRYTPK KNPVPLKQTV	1365
Consensus	INFTTHNIPO TFTTAIRCTK CCKGVDNMPE LHKHILACAS ASDKKRYTPK KNPVPLKOTV	1380
hRIZ	DPKNCVVVLD NSCKNAFRRY COPKRUNFY ELJKMSTNKL KLYALKKKNO LVOKAILOKN	1438
rRI2	OPKNGVVVLD NSCKNAFRRY COPKRUTF V ELTKMSTNKL KLBALKKKNO LVOKAILOKN	1425
Consensus	OPKNGWWLD NSGKNAFRRM COPKRU F W EUKMS MKL KU ALKKKNO LVOKAILOKN	1440

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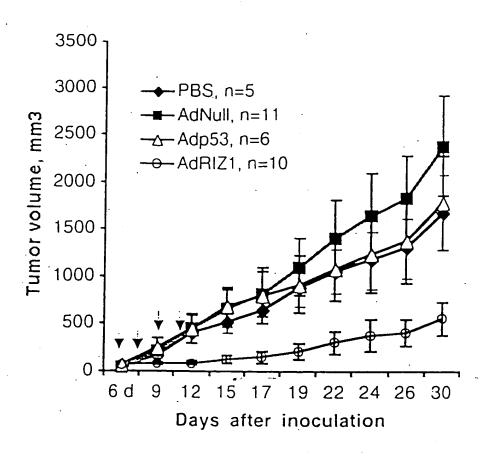
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hRI2	KSAKOKADLA NACESSHIC PYCAREFTY! GSLNKHAAFS CPKKPLSPAK -KVSHSSKKO	1498
rRI2	RAAKOKADLA DTSEPSSHIC PYCAREFTY! GSLNKHAAFS CPKKPLSPAK HKVSHSSKKC	1485
Consensus	AKOKADL. E SSHIC PYCAREFTY! GSLNKHAAFS CPKKPLSPAK KVSHSSKKC	1500
hRIZ	CHESPASSOK INSVSNHRRRT ADMEIKMOSM OMPLCKTRAR SECPTOVALP SSSFRSTONV	1558
rRIZ	CHASSESSOR INSSCHRRRT ADMEIKMOST ONPLCKTRAR SICPAOAGLP SSSFRSTONV	1545
Consensus	CH S SSD NS RRRT AD EIKMOS D PLCKTRAR S CP.D LP SSSFRS ONV	1560
hRI2	KFAASVKSKK FSSSSLRNSS PIRMAKITHV ECKKPKAVAK MSAQLSSKT SRELHVRVQK	1618
rRI2	KFAASVKSKK MSSSSLRNSS PIRMAKITHV ECKKPKAVAK EMSAQLSSKS SRELHVRVQK	1605
Consensus	KFAASVKSKK SSSSLRNSS PIRMAKITHV ECKKPKAVAK MSAQLSSK SRELHVRVQK	1620
hRIZ	SKAVLOSKST LASKARTDRF NIKSRERSGG PUTRSLOLAA AADLSENARE DISAKGELKD	1678
rRIZ	SKAVIDSKTA LASKARTDRF IVKSRERSGG PITRSLOLAA AADLSESRRE DESARHELKD	1665
Consensus	SKAVLOSK LASKARTDRF KSRERSGG PITRSLOLAA AADLSE RE DISA ELKD	1680
hRIZ rRIZ Consensus	FSYSLRLASR CSPRAHYIT RQIRKVKALA ANGFOOPFIK E-FSYSLRLASR CSSTAHYIT RQRKVKALA ALIFFOOPFIK EKFSYSLRLASR C A YIT RQ RKVKA A FOOPFIK E	1719 1707 1722



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